

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: markspencer

Timestamp: Wed Jul 11 15:03:20 EDT 2007

=====

Application No: 10625307 Version No: 3.0

Input Set:

Output Set:

Started: 2007-06-29 16:38:38.696

Finished: 2007-06-29 16:38:39.414

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 718 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 137

Actual SeqID Count: 137

SEQUENCE LISTING

<110> Thompson, Julia E.
 Vaughan, Tristan J.
 Williams; Andrew J.
 Green, Jonathan A.
 Jackson, Ronald H.
 Bacon, Louise
 Johnson, Kevin S.
 Wilton, Alison J.
 Tempest, Philip R.
 Pope, Anthony R.

<120> Specific Binding Members for Human Transforming Growth Factor Beta:
 Materials and Methods

<130> 05569.0007.CPUS02

<140> 10625307

<141> 2003-07-23

<150> 10/625,307

<151> 2003-07-23

<150> 09/054,847

<151> 1998-04-03

<150> 08/571,755

<151> 1995-12-13

<150> PCT/GB96/02450

<151> 1996-10-07

<160> 137

<170> PatentIn version 3.1

<210> 1

<211> 5

<212> PRT

<213> Human

<400> 1

Arg Val Leu Ser Leu

1 5

<210> 2

<211> 14

<212> PRT

<213> Human

<400> 2

Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn

1 5 10

<210> 3
<211> 17
<212> PRT
<213> Human

<400> 3

Cys Gly Gly Thr Gln Tyr Ser Lys Val Leu Ser Leu Tyr Asn Gln His
1 5 10 15

Asn

<210> 4
<211> 14
<212> PRT
<213> Human

<400> 4

Thr Gln Tyr Ser Lys Val Leu Ser Leu Tyr Asn Gln His Asn
1 5 10

<210> 5
<211> 345
<212> DNA
<213> Human

<400> 5
gaggtgcagc tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgagactc 60
tcctgtgcag cgtctggatt caccttcagt agctatggca tgcactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatggtatg atggaagtaa taaatactat 180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaattg acagcctgag agccgaggac acggccgtgt attactgtgg aagaacgctg 300
gagtctagtt tgtggggcca aggcaccctg gtcaccgtct cctca 345

<210> 6
<211> 115
<212> PRT
<213> Human

<400> 6

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asp Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Gly Arg Thr Leu Glu Ser Ser Leu Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 7
<211> 369
<212> DNA
<213> Human

<400> 7
caggtgcaac tgggtggagtc tgggggagggc gtggtccagc ctgggagggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt agctatggca tgcaactgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaagtaa taaatactat 180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaatga acagcctgag agctgaggac acggctgtgt attactgtgc gaaaactggg 300
gaatatagtg gctacgattc tagtgggtgtg gacgtctggg gcaaaggagc cacggtcacc 360
gtctcctca 369

<210> 8
<211> 123
<212> PRT
<213> Human

<400> 8

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Lys Thr Gly Glu Tyr Ser Gly Tyr Asp Ser Ser Gly Val Asp Val
 100 105 110

Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 9
 <211> 369
 <212> DNA
 <213> Human

<400> 9
 caggtgcagc tgggtgcagtc tgggggagggc gtgggtccagc ctgggaggtc cctgagactc 60
 tcctgtgcag cctctggatt caccttcagt agctatggca tgcactgggt ccgccaggct 120
 ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaagtat taaatactat 180
 gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaataga acagcctgag agctgaggac acggctgtgt attactgtgc gcgaactggg 300
 gaatatagtg gctacgatac gagtgggtgtg gagctctggg ggcaaggagc cacggtcacc 360
 gtctctctca 369

<210> 10
 <211> 123
 <212> PRT
 <213> Human

<400> 10

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Ile Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Thr Gly Glu Tyr Ser Gly Tyr Asp Thr Ser Gly Val Glu Leu
100 105 110

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 11

<211> 369

<212> DNA

<213> Human

<400> 11

caggtgcaac tgggtggagtc tgggggaggc gtggtccagc ctgggaggtc cctgagactc 60

tcctgtgcag cctctggact caccttcagt agctatgaca tgcactgggt ccgccagcct 120

ccagccaagg ggctggagtg ggtggcagtt atatcatatg atggaagtag taaatactat 180

gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240

ctgcaaataga acagcctgag agctgaggac acggctgtgt attactgtgc gcgaactgggt 300

gaatatagtg gctacgacac gagtgggtgtg gagctctggg ggcaagggac cacggtcacc 360

gtctcctca 369

<210> 12

<211> 123
<212> PRT
<213> Human

<400> 12

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Ser Ser Tyr
20 25 30

Asp Met His Trp Val Arg Gln Pro Pro Ala Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Ser Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Thr Gly Glu Tyr Ser Gly Tyr Asp Thr Ser Gly Val Glu Leu
100 105 110

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 13
<211> 324
<212> DNA
<213> Human

<400> 13

gacatcgtga tgacccagtc tccttcacc ctgtctgcat ctgtaggaga cagagtcacc 60
atcacttgcc gggccagtc ggggtattagt agctgggtgg cctggatatca gcagaaacca 120
gggagagccc ctaaggtctt gatctataag gcatctactt tagaaagtgg ggtcccatca 180
aggttcagcg gcagtggatc tgggacagat ttactctca ccatcagcag tctgcaacct 240
gaagattttg caacttacta ctgtcaacag agttacagta ccccgtaggac gttcggccaa 300
gggaccaagc tggagatcaa acgt 324

<210> 14
<211> 108
<212> PRT
<213> Human

<400> 14

Asp Ile Val Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Arg Ala Pro Lys Val Leu Ile
35 40 45

Tyr Lys Ala Ser Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Trp
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg
100 105

<210> 15
<211> 342
<212> DNA
<213> Human

<400> 15

gacatcgtga tgacccagtc tccagactcc ctggetgtgt ctctgggcga gagggccacc 60
atcaactgca agtccagcca gagtctttta tacagctaca acaagatgaa ctacttagct 120
tggtaccagc agaaaccagg acagcctcct aagctgctca ttaactgggc atctaccgg 180
gaatccgggg tccctgaccg attcagtggc agcgggtctg ggacagattt cactctcacc 240
atcagcagcc tgcaggctga agatgtggca gtttattact gtcagcaata ttatgcaact 300
cctctgacgt tcggccacgg gaccaaggtg gaaatcaaac gt 342

<210> 16
<211> 114
<212> PRT

<213> Human

<400> 16

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser
20 25 30

Tyr Asn Lys Met Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Asn Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Ala Thr Pro Leu Thr Phe Gly His Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg

<210> 17

<211> 330

<212> DNA

<213> Human

<400> 17

cacgttatac tgactcagga cctgctgtg tctgtggcct tgggacagac agtcaggatc 60

acgtgccaaag gagacagcct caaaagctac tatgcaagtt ggtaccagca gaagccagga 120

caggcccctg tacttgtcat ctatggtgaa aacagccggc cctccgggat cccagaccga 180

ttctctggct ccagctcagg aaacacagct tccttgacca tctactggggc tcaggcggaa 240

gatgaagctg actattactg taactcccgg gacagcagtg gtacccatct agaagtgttc 300

ggcggaggga ccaagctgac cgtcctaggt 330

<210> 18

<211> 110

<212> PRT
<213> Human

<400> 18

His Val Ile Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln
1 5 10 15

Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Lys Ser Tyr Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gly Glu Asn Ser Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
50 55 60

Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Thr His
85 90 95

Leu Glu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 19
<211> 17
<212> PRT
<213> Human

<400> 19

Ala Arg Thr Gly Glu Tyr Ser Gly Tyr Asp Ser Ser Gly Val Asp Val
1 5 10 15

Trp

<210> 20
<211> 17
<212> PRT
<213> Human

<400> 20

Ala Arg Thr Gly Glu Tyr Ser Gly Tyr Asp Thr Ser Gly Val Glu Leu
1 5 10 15

Trp

<210> 21
<211> 17
<212> PRT
<213> Human

<400> 21

Ala	Arg	Thr	Arg	Glu	Tyr	Ser	Gly	His	Asp	Ser	Ser	Gly	Val	Asp	Asp
1				5					10					15	

Trp

<210> 22
<211> 17
<212> PRT
<213> Human

<400> 22

Ala	Arg	Thr	Gly	Pro	Phe	Ser	Gly	Tyr	Asp	Ser	Ser	Gly	Glu	Asp	Val
1				5					10					15	

Arg

<210> 23
<211> 17
<212> PRT
<213> Human

<400> 23

Ala	Arg	Thr	Glu	Glu	Tyr	Ser	Gly	Tyr	Asp	Ser	Ser	Gly	Val	Asp	Val
1				5					10					15	

Trp

<210> 24
<211> 17
<212> PRT
<213> Human

<400> 24

Ala Gln Thr Arg Glu Tyr Thr Gly Tyr Asp Ser Ser Gly Val Asp Val
1 5 10 15

Trp

<210> 25
<211> 17
<212> PRT
<213> Human

<400> 25

Ala Arg Thr Glu Glu Tyr Ser Gly Phe Asp Ser Thr Gly Glu Asp Val
1 5 10 15

Trp

<210> 26
<211> 17
<212> PRT
<213> Human

<400> 26

Ala Arg Thr Glu Glu Phe Ser Gly Tyr Asp Ser Ser Gly Val Asp Val
1 5 10 15

Trp

<210> 27
<211> 17
<212> PRT
<213> Human

<400> 27

Ala Arg Thr Gly Glu Tyr Ser Gly Tyr His Ser Ser Gly Val Asp Val
1 5 10 15

Arg

<210> 28
<211> 17
<212> PRT

<213> Human

<400> 28

Ala Arg Thr Glu Glu Phe Ser Gly Tyr Asp Ser Ser Gly Val Asp Val
1 5 10 15

Trp

<210> 29

<211> 17

<212> PRT

<213> Human

<400> 29

Ala Arg Ala Gly Pro Phe Ser Gly Tyr Asp Ser Ser Gly Glu Asp Val
1 5 10 15

Arg

<210> 30

<211> 17

<212> PRT

<213> Human

<400> 30

Ala Arg Thr Gly Pro Phe Ser Gly Tyr Asp Ser Ser Gly Glu Asp Val
1 5 10 15

Trp

<210> 31

<211> 17

<212> PRT

<213> Human

<400> 31

Ala Arg Thr Glu Glu Phe Ser Gly Tyr Asp Ser Ser Gly Val Asp Val
1 5 10 15

Trp

<210> 32
<211> 17
<212> PRT
<213> Human

<400> 32

Ala Arg Thr Gly Glu Tyr Ser Gly Tyr Asp Ser Ser Gly Glu Leu Val
1 5 10 15

Trp

<210> 33
<211> 17
<212> PRT
<213> Human

<400> 33

Ala Arg Thr Glu Glu Phe Ser Gly Tyr Asp Ser Thr Gly Glu Glu Val
1 5 10 15

Trp

<210> 34
<211> 17
<212> PRT
<213> Human

<400> 34

Ala Arg Thr Glu Glu Phe Ser Gly Tyr Asp Ser Ser Gly Val Asp Val
1 5 10 15

Trp

<210> 35
<211> 17
<212> PRT
<213> Human

<400> 35

Ala Arg Thr Gly Glu Tyr Ser Gly Tyr Asp Ser Ser Gly Glu Asp Val
1 5 10 15

Trp

<210> 36
<211> 350
<212> DNA
<213> Human

<400> 36
gagattcagc tgggtggagtc tgggggaggc gtggtccagc ctgggagatc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt agctatgcta tgcactgggt ccgccagget 120
ccagccaagg ggctggagtg ggtggcagtt atatcatatg atggaagcaa taaatactac 180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
ctgcaaataga acagcctgag agctgaggac acggccgtgt attactgtgc aagagcgggg 300
ttggaaacga cgtggggcca aggaaccctg gtcaccgtct cctcaagtgg 350

<210> 37
<211> 117
<212> PRT
<213> Human

<400> 37

Glu Ile Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Ala Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ala Gly Leu Glu Thr Thr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Ser Gly
115

<210> 38

<211> 324

<212> DNA

<213> Human

<400> 38

gatgttgtga tgactcagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60

atcacttgcc gggccagtca gggcattagc aattatttag cctggtatca gcaaaaacca 120

gggaaa